

CLAIMS**WHAT IS CLAIMED IS:**

1. An apparatus for a ducted heating and cooling unit, comprising:
a bent coil having a coil surface through which outlet air is discharged in a first direction and a second direction different than the first direction.
2. The apparatus of claim 1, wherein the first direction is longitudinal and the second direction is at an angle with respect to the first direction.
3. The apparatus of claim 1, wherein at least a portion of the coil is curved.
4. The apparatus of claim 1, wherein the bent coil has a profile selected from the group consisting of a V-shape, C-shape, M-shape, and semi-circular shape.
5. The apparatus of claim 1, further comprising at least one vertical fin disposed in the bent coil, wherein said at least one vertical fin directs the outlet air perpendicular to the coil surface to enable dividing of the outlet air in the first and second directions.

6. A ducted heating and cooling unit, comprising:
at least one fan;
a bent coil disposed downstream from the fan, the bent coil having a coil surface through which outlet air is discharged in a first direction and a second direction different than the first direction; and
a duct housing said at least one fan and the bent coil.
7. The ducted unit of claim 6, wherein said at least one fan comprises a plurality of fans.
8. The ducted unit of claim 6, further comprising a separation wall disposed between said at least one fan and the bent coil.
9. The ducted unit of claim 6, wherein the duct includes at least one side opening substantially aligned with the second portion.
10. The ducted unit of claim 6, wherein the bent coil has a profile selected from the group consisting of a V-shape, C-shape, M-shape, and semi-circular shape.
11. The ducted unit of claim 6, further comprising at least one vertical fin disposed in the bent coil, wherein said at least one vertical fin directs the outlet air perpendicular to the coil surface to enable dividing of the outlet air in the first and second directions.